Application No.: 10/567,980 Docket No.: 13477-00002-US

Amendment dated June 4, 2009 Reply to Office Action of April 6, 2009

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently amended) A method for generating or increasing the resistance of a plant to a plant pathogen of the phylum Oomyceta comprising increasing the activity of a Rpi-blb2 protein in the plant or a tissue, organ or cell of the plant or a part thereof by expressing a transgenic Rpi-blb2 protein encoding nucleic acid molecule, wherein the plant has increased resistance to the plant pathogen of the phylum Oomyceta, wherein said Rpi-blb2 protein encoding nucleic acid molecule is selected from the group consisting of:

- (a) a nucleic acid molecule encoding the polypeptide depicted in SEQ ID NO: 2 or 4;
- (b) a nucleic acid molecule comprising the coding sequence as depicted in SEQ ID NO: 3 or 5 or 6; and
- (c) a nucleic acid molecule encoding a polypeptide comprising a sequence having at least 95% identity to the amino acid sequence of the polypeptide encoded by the nucleic acid molecule of (a) or (b); and
- (d) a nucleic acid molecule encoding a biologically active portion of the polypeptide encoded by the nucleic acid molecule of (a) or (b).
- 2. (Cancelled)
- 3. (Previously presented) The method of claim 1, wherein the activity of a further resistance protein is increased.
- 4. (Previously presented) The method of claim 1, wherein the activity is increased due to a de novo-expression.
- 5. (Previously presented) The method of claim 1, wherein the activity is an endogenous activity.
- 6. (Previously presented) The method of claim 3, comprising one or more of the following steps
 - a) stabilizing the resistance protein;
 - b) stabilizing the resistance protein encoding mRNA;
 - c) increasing the specific activity of the resistance protein;

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d) expressing or increasing the expression of a homologous or artificial transcription factor for resistance protein expression;

- e) stimulating resistance protein activity through exogenous inducing factors;
- f) expressing a transgenic resistance protein encoding gene; and/or
- g) increasing the copy number of the resistance protein encoding gene.
- 7. (Previously presented) The method of claim 1 which results in reduction in sporulation index of at least 30% after infection with P. infestans compared to a wild type.
- 8-38. (Cancelled)
- 39. (Previously presented) The method of claim 1, wherein the Rpi-blb2 protein is characterized by a P-loop and a NBS domain.
- 40-43. (Cancelled)
- 44. (Previously presented) The method of claim 3, wherein the activity of the further resistance protein is an endogenous activity.
- 45. (Previously presented) The method of claim 1, comprising one or more of the following steps
 - a) stabilizing the Rpi-blb2 protein;
 - b) stabilizing the Rpi-blb2 protein encoding mRNA;
 - c) increasing the specific activity of the Rpi-blb2 protein;
- d) expressing or increasing the expression of a homologous or artificial transcription factor for the Rpi-blb2 protein expression;
 - e) stimulating the Rpi-blb2 protein activity through exogenous inducing factors;
 - f) expressing a transgenic Rpi-blb2 protein encoding gene; and/or
 - g) increasing the copy number of the Rpi-blb2 protein encoding gene.
- 46. (Previously presented) The method of claim 1, wherein the Rpi-blb2 protein encoding nucleic acid molecule is a nucleic acid molecule encoding a polypeptide comprising a sequence having at least 95% identity to the amino acid sequence of SEQ ID NO: 2 or 4, wherein the polypeptide comprises a NBS domain and an LRR domain.

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47-48. (Cancelled)